

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Tatsuo UCHIDA, et al.

Conf.

Application No. **NEW NATIONAL PHASE**

Group

Filed October 13, 2005

Examiner

MEASURING METHOD AND DEVICE FOR LIQUID CRYSTAL VISCOSITY COEFFICIENT

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

October 13, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- ☐ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

JC09 Rec'd PCT/PTO 13 OCT 2009

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. ☐ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

c. ☒ **FOREIGN SEARCH REPORT OR ACTION**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

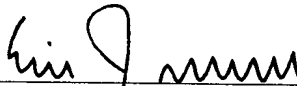
FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

Respectfully submitted,

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Enclosures: ☒ Form PTO-1449(s)
☐ Documents
☒ Foreign Search Report
☐ Other: _____

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Attorney Docket No.: 8030-1013	Application No.: NEW NATIONAL PHASE
	Applicant: Tatsuo UCHIDA et al.	
	Filing Date: October 13, 2005	Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CH. GAHWILLER, Direct Determination of the Five Independent Viscosity Coefficients of Nematic Liquid Crystals, Molecular Crystals and Liquid Crystals, 1973, Vol. 20, pages 301 to 318
	H.H. GRAF, Shear and rotational viscosity coefficients of two nematic liquid crystals, MOLECULAR PHYSICS, 1992, Vol. 77, No. 3, pages 521 to 538
	D. Armitage, Nematic Liquid-Crystal Viscosity and Response Time, SID 96, DIGEST, 1996, pages 584 to 587
	Shinya ONDA, Dynamic Behavior of OCB-cell with Fast Response for a Color Sequential Liquid Crystal Display, ASIA DISPLAY 98, 1998, pages 1055 to 1058
	O. Cossalter, A New Method of Viscosity Determination from the Electro-Optical Response of a Nematic LCD, J. Phys., II, France 6, 1996, pages 1663 to 1668
	K. SKARP, Measurements of Hydrodynamic Parameters for Nematic 5CB Mol. Cryst. Liq. Cryst., 1980, Vol. 60, pages 215 to 236

EXAMINER:	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

* English language abstract provided for the Examiner's convenience